

**ENVIRONMENTALLY SAFE ALKYLATION OF
ALIPHATIC AND AROMATIC HYDROCARBONS WITH
OLEFINS USING SOLID HF-EQUIVALENT CATALYSTS**

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ABSTRACT

A method of alkylating aliphatic or aromatic hydrocarbons with olefins using solid hydrogen fluoride-equivalent catalysts is described. Preferred catalysts comprise solid polymeric onium polyhydrogen fluoride complexes.